



(3-Methacryloxypropyl)trimethoxysilane

AB109006 | CAS 2530-85-0

1. Product Identification

Chemical Name: (3-Methacryloxypropyl)trimethoxysilane

Synonyms: 3-(Trimethoxysilyl)propyl methacrylate, (γ -Methacryloxypropyl)trimethoxysilane

Molecular Formula: C₁₀H₂₀O₅Si

Molar Mass: 248.39 g/mol

2. Physical and Chemical Properties

Purity: 98%

Appearance: Colorless, clear liquid

Odor: Slight, characteristic

Boiling Point: approx. 190 °C

Density: approx. 1.04–1.05 g/cm³ at 25 °C

Refractive Index: 1.431–1.432 at 20 °C

Solubility: Soluble in organic solvents; hydrolyzes in water releasing methanol

The data represent typical values (no product specification)

3. Applications

- Surface modification of fillers and pigments for thermoplastics and thermosets
- Polymer component in coatings
- Adhesion promoter for acrylic and olefinic systems
- Finish for glass fabrics used in unsaturated polyester and polyolefin resins
- Ingredient of UV-curing coatings

4. Reactivity

Trimethoxysilyl-groups: Hydrolyze in contact with moisture, releasing methanol and forming reactive Silanol-groups which bond to inorganic surfaces or interact as crosslinker; utilization of a catalyst like acids or Lewis acids are recommended.

Methacryloxy-groups: React with unsaturated polyesters, olefins or acrylates, by radical or UV-initiation or heat.

5. Storage and Handling

Storage Conditions: Store in a cool, dry, and tightly sealed container. Protect from moisture and direct sunlight.

Avoid direct contact with moisture to prevent hydrolysis.

Methanol release caution; it is recommended to work in well-ventilated spaces.

6. Available Quantities

AB109006 is available in following quantities:

- > Shop AB109006 | CAS 2530-85-0

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets (MSDS). They are available on the abcr website

- > https://abcr.com/de_en/ab109006